



Field Report for site visit 04.21.10  
Chemetco Inc., Hartford, IL Superfund site  
EPA ID: ILD048843809

**Purpose:** The purpose of this inspection is to identify nearby potential receptors to a release, identify grossly hazardous material stored on-site (besides slag, sludge, etc.), assess current storm water management systems that control releases to sensitive wetlands, and assess security that seals the site and helps manage exposure to workers and trespassers. Assess security system, assess stormwater system, assess sanitary system, observe estate grounds outside of facility site and locate nearest residences/receptors, assess bulk hw/fuel storage including observe inside of Foundry & former 90-d Storage Bldgs for accumulated materials estimation, communicate about Site Contingency Plan with site environmental manager.

**Tasks:** Met with Gary Davis, Eric Watt and discussed Security Plan, Contingency Plan and how they may be updated. Info was gathered on state of components of security, stormwater, sanitary system; adjacent land owners and tenant farmer leases, land uses; fuel storage capacities.

**Procedures:** Security system:

Cameras, motion sensors, alarms, lighting, 6 ft fencing with 3 lines of barb wire, site access logs, chains, locks, barriers, ILEPA seal order. Cameras save video 15 d, system is DVR capable. Fence on N, E sides is overgrown, shielded by dense vegetation. On the E side it is breached in 3 distinct places totaling nearly ~40 ft. The Estate is in the process of working out procedures for seal order access with IAD. I suggested these procedures be attached to the Security Plan. Repairs are needed on one of the 9 cameras, such as electrical fuse and a manlift to get to it. At night the W gate and parking lot are lit at night, and the lock lights shine on the S, E side of the Tank House. Motion detectors are tied to loud, obnoxious horns in lack of light. The motion and door sensors are fully functioning. According to Estate personnel, most trespassers enter from the south and east sides of the facility perimeter. Barriers are located at various points on Chemetco Ln. south of the facility to impede vehicle access. A farm access drive exists at the NE corner of the facility from New Poag Rd. The Madison County Sheriff passes by/through the property once a night. May 6, 2010 was another incident of trespassing/theft reported by Estate personnel. A map was made of security system components.

**Emergency preparedness:**

Discussed components and status of Fire System with staff, went over Contingency Plan and Emergency Procedures document. I suggested gather and centralize MSDSs for active and legacy chemicals on site to facilitate hazard identification in case of emergency. Estate plans to update CP at start of demo work to include location of MSDSs, quantities of hw/fuel onsite, document onsite fire system. A HASP will be submitted if the demo plan is approved. Another HASP is needed for the pilot work. The questions was raised if underground fire lines west of Foundry dock will be affected by demolition. Recommended the fire system be checked and O&M of this system be incorporated into O&M plan. This system needs manual trigger and electricity to work and is run out of the Pump House. Discussed first aid training levels. Encouraged update of CP sent to local responders if demo work proceeds.

**Hw/Fuel storage:**

Fuel is stored primarily in the above ground containment area between the Maintenance Shop and the Admin Bldg. 2<sup>o</sup> containment intact, no leaks observed. Empty tank 2500 gal. gas located at former ZnO pits. Closed, removed c. 1989 UST 2000 gal. located between fuel

storage area and maintenance shop. Six 33 lb. cylinders of propane are stored at the NE corner of the Maintenance Shop. Other storage includes 250 gal. tank of kerosene, one-1000 gal. tank of used oil, and 2-2500 gal. diesel tanks of which there is ~500 gal. of actual fuel, and <10 hydraulic systems onsite generally inside bldgs. One palette of 55-gal. drums of sulfuric acid is stored in the Maintenance Shop, 4-55 gal. drums of solvents in the baghouse control room, 1-55 gal. drum caustic in MS, 2-200 gal. caustic tanks in AAF area. One is empty steel, other ~200-500 gal. dilute in plastic. Also 2-3 gal. sulfuric in Estate lab, couple L caustic, ~4 gal. hydrochloric acid. There is also a bench scale lab in the Admin Bldg. that Paradigm Minerals & Environmental Services is operating that to date hasn't been inspected & inventoried. Additionally in the NW corner of the site is an oxygen line no longer in use that may present a pressure hazard. Fuel storage capacity ~8750 gal onsite, ~1750 gal in use plus propane. A map was made of hw/fuel storage locations.

#### Sanitary System:

Sanitary system was traced from location of deep wells on east side of facility site to Red Tank on E wall of Foundry, to pumphouse and aeration units, sand filters, and final storage in Tank House addition. Water pressure delivery to taps is 45-65 psi via utility room. No potable water onsite. Septic system collects solids underground while liquids are run through Norweco system that aerates and chlorinates. System was designed for ~120 ppl load. System hasn't been serviced since 2001 and Estate is in process of procuring service. The second Norweco system by south fence is proposed for demolition. Data from IL State Water Survey was provided on depth of deep wells, only one of which is in use (West). The Estate claimed they submitted a ground water monitoring plan to ILEPA in 2008 and await approval on that plan.

#### Stormwater System:

Storm water system was inspected in detail and a separate field inspection report and map was generated in the field (report attached). The 6" return line from near the E canal to the retention basin was broken in two places as observed and covered in numerous spots by fallen branches. The retention basin is lined. In the AAF area there are 3 closed-loop systems, the foundry loop, the casing loop, and the AAF loop. The proposed demolition plan modifies the existing system to better manage storm water during demolition.

#### Estate grounds:

Dave Mueller is the tenant farmer who leases all available Estate land for corn farming. Use of corn undetermined. Soils in the corn fields looked normal upon visual inspection (i.e., no visible slags). There are some residents north of the facility off New Poag Rd. The houses at the very southern border of the Estate are abandoned—they used to be for the former owner.

**Follow up actions:** Meet with OSC on removal consult May 17, 2010. Work with Estate to manage immediate hazards (trespassers/security, onsite workers/uncharacterized drums). Facilitate hw abatement and demolition of the Foundry to the extent possible, as this will further minimize immediate threats by extremely unstable structures that present risk to site workers. Keep working with Estate to ID further useful files left on site. Task Enforcement Services to be working on ILEPA CERCLA file review. Consider non-time critical action for stormwater system improvement—this is source control. Chemetco was HRS scored on the overland-flow/surface water migration pathway. Stopping the addition of contaminants to wetlands and tributary of Long Lake will mitigate additional risk in short and long term, and is consistent with long term remedial actions. Further assess need for source control re: fugitive dust.

## Stormwater Construction Site Inspection Report

General Information			
Project Name	Estate of Chemetco, Inc.		
NPDES Tracking No.	IL0025747	Location	Hartford, IL
Date of Inspection	04.21.10	Start/End Time	1pm
Inspector's Name(s)	Michelle Kerr		
Inspector's Title(s)	Remedial Project Manager		
Inspector's Contact Information	312.886.8961, <a href="mailto:kerr.michelle@epa.gov">kerr.michelle@epa.gov</a> , 77 W. Jackson Blvd. (SRF-6J), Chicago, IL 60604		
Inspector's Qualifications	U.S. EPA Remedial Project Manager delegated authority from CERCLA Section 115 via National Contingency Plan Subpart E		
Describe present phase of construction	Proposed demolition plan for Foundry Building and interior of Tank House under review by ILEPA, US EPA		
Type of Inspection:			
<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>NA</i>			
If yes, provide:			
Storm Start Date & Time:	Storm Duration (hrs):	Approximate Amount of Precipitation (in):	
Weather at time of this inspection?			
<input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snowing <input type="checkbox"/> High Winds <input type="checkbox"/> Other:              Temperature: 77°F			
Have any discharges occurred since the last inspection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe: <i>outfall #5 SW</i>			
Are there any discharges at the time of inspection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>to ponds from S canals</i>			
If yes, describe:			

### Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Feature	Installed?	Maintenance Required?	Action Needed and Notes
1	Sanitary system	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	See individual notes
2	W Connecting lines canal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground
3	West canal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	NW sump & pump	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	precipitous large pump, small going
5	Connecting line N sump	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground
6	N sump	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	pump & in pit
7	N valve vault	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	3 pipes but 1 in, not in operation
8	N Lagoon	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	NE perimeter canal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	vegetation, underground pipe ditch overgrown, visible, beamed behind bunker

Scrubber H<sub>2</sub>O came from ponds

	Feature	Installed?	Maintenance Required?	Action Needed and Notes
10	N line 10" pipe N,E lagoons	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	not in use
11	N perimtr canal slag mtn	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	shaded by ditch + veg
12	NW line to check valve	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground & in operation
13	NW perimtr canal slag mtn	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground, not in operation ditch
14	SE corner pump	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	not in use
15	S Lagoon	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
16	Line to pump house, E,W lagoons	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	terminates at pump house <del>above, then runs underground</del> above, then runs underground
17	Pump House	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	run five pumps usually only
18	W Lagoon	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
19	E perimeter canal	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	bermed @ cornfield
20	EW valve vault	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	St. perimeter H <sub>2</sub> O comes out of pipe below in use
21	E Lagoon	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
22	EW check valve	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	→ proposed mod. to reverse flow in lagoon
23	Line to SE sump & pump	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground, in use
24	SE sump & pump	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	not in service, stagnant, debris
25	SE perimeter canal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	pipe entry @ SE corner
26	SE canal	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	no H <sub>2</sub> O
27	S perimeter canal	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	concrete-lined, empty
28	SW sump & pump	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	operation
29	SW canal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	underground trench, overflow falls in trench
30	CLS drains	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
31	CLS N pond	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	see map
32	CLS S pond	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
33	CLS lines	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
34	Line perimeter system to basin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	viewed, broke in E line broke outside fence, not in use
35	Basin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	lower H <sub>2</sub> O level than 3/3/10
36	Outfall #5	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Not used
	St corner pump line to pump house			above then underground
	SW sump			pipe discharge H <sub>2</sub> O from S canal
	W deep well pump			used for non-pot H <sub>2</sub> O cap. 100 gal/min
	E deep well pump			1 abandoned, 1 active 500 gal/min
	pipe to retention basin from E canal			buried - H <sub>2</sub> O would need to be pumped

#### Overall Site

	BMP/activity	Implemented?	Maintenance Required?	Action Needed and Notes
1	Sprayers in use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	not in use
2	Are perimeter controls and sediment barriers adequately installed (keyed into substrate, tiles) maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	perimeter bermed on N, E sides
3	Drains?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

	BMP/activity	Implemented?	Maintenance Required?	Action Needed and Notes
4	Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Not inspected other than as noted - all would need maintenance
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6	Is the construction exit/entry preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
7	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Are decon available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A

Notes

**CERTIFICATION STATEMENT**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: M. Ken USEPA RPM

Signature: \_\_\_\_\_ Date: 5/10/10

